

Notice of Allowability

Application No.

10/787,158

Applicant(s)

HAY ET AL.

Examiner

Anabel M. Ton

Art Unit

2875

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 07/12/07.
2. ☒ The allowed claim(s) is/are 1-3,5-72,77,79-80,82,84,85.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

DETAILED ACTION

Allowable Subject Matter

1. Claims 1-3,5-72,77,79,80,82,84-85 are allowed.
2. The following is an examiner's statement of reasons for allowance: The prior art cited does not anticipate individually nor teach in combination the following limitations:
 - A light diffusing film for a back light display comprising: a unitary film consisting essentially of polycarbonate and a uniformly dispersed anti-static material in an amount sufficient to impart anti-static properties to the film, wherein said film additionally comprising a uniformly dispersed acrylic bulk scattering additive for the high scattering of light having a haze of greater than 80%.
 - A diffusing film for a back light display comprising: a unitary film consisting essentially of polycarbonate and a uniformly dispersed anti-static material in an amount sufficient to impart anti-static properties to the film wherein the film comprises at least one textured surface comprises a random matte textured surface.
 - A diffusing film for a back light display comprising: a unitary film consisting essentially of polycarbonate and a uniformly dispersed anti-static material in an amount sufficient to impart anti-static properties to the film, wherein said film additionally comprising at least one textured surface for the low scattering of light.
 - A light diffusing film for a back light display comprising: a unitary film consisting essentially of polycarbonate and a uniformly dispersed anti-static material in an

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amount sufficient to impart anti-static properties to the film, and an ultraviolet absorber (UVA) component in an effective amount to reduce discoloration of the film when exposed to ultraviolet (UV) light.

- A diffusing film for a back light display comprising: a unitary film consisting essentially of polycarbonate and a uniformly dispersed anti- static material in an amount sufficient to impart anti-static properties to the film, wherein the film has a retardation value of less than about 100 nm.
- A diffusing film for a back light display comprising: a unitary film consisting essentially of polycarbonate and a uniformly dispersed anti- static material in an amount sufficient to impart anti-static properties to the film, wherein the film has less than 4 point defects between 0.10 and 0.15 mm nominal diameter per 10 square foot inspection area.
- A diffusing film for a back light display comprising: a unitary film consisting essentially of polycarbonate and a uniformly dispersed anti- static material in an amount sufficient to impart anti-static properties to the film, wherein the film has less than 4 black spot point defects larger than 0.15 mm nominal diameter per 40 square foot inspection area.
- A light diffusing film for a back light display comprising: a unitary film consisting essentially of polycarbonate and a uniformly dispersed anti-static material in an

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amount sufficient to impart anti-static properties to the film, wherein the film has a protective masking film laminated to the surface with a peel test capability of between 0.17 and 1.06 oz/in_.

- An assembly for an optical film comprising: a light diffusing film for a back light display comprising a unitary film consisting essentially of polycarbonate and a uniformly dispersed anti-static material in an amount sufficient to impart anti-static properties to the film; a backing film; and a pressure sensitive adhesive adhering the backing film to the light diffusion film.
- A light diffusing film for a back light display comprising: a unitary film consisting essentially of polycarbonate and a uniformly dispersed anti-static material comprising a fluorinated phosphonium sulfonate in an amount sufficient to impart anti-static properties to the film, said film additionally comprising at least one textured surface for the low scattering of light, or said film additionally comprising a uniformly dispersed acrylic bulk scattering additive of particles having a mean particle size of from about 3 to about 10 microns and present in an amount from about 2 to about 7 percent by weight percent for the high scattering of light.
- A backlight display device comprising: an optical source for generating light; a light guide for guiding the light therealong; a unitary film consisting essentially of polycarbonate and a uniformly dispersed anti-static material in an amount sufficient to impart anti-static properties to the film, wherein said film additionally compris~ a

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uniformly dispersed acrylic bulk scattering~ additive for the high scattering of light having a haze of greater than 80%.

- A backlight display device comprising: an optical source for generating light; a light guide for guiding the light there along; a unitary film consisting essentially of polycarbonate and a uniformly dispersed anti-static material comprising a fluorinated phosphonium sulfonate in an amount sufficient to impart anti-static properties to the film, said film additionally comprising at least one textured surface for the low scattering of light, or said film additionally comprising a uniformly dispersed acrylic bulk scattering additive of particles having a particle size of from about 3 to about 10 microns in an amount from about 2 to about 7 percent by weight percent for the high scattering of light.
- A backlight display device comprising: an optical source for generating light; a light guide for guiding the light therealong; a unitary film consisting essentially of polycarbonate and a uniformly dispersed anti-static material comprising a fluorinated phosphonium sulfonate in an amount sufficient to impart anti-static properties to the film, said film additionally comprising at least one textured surface for the low scattering of light, or said film additionally comprising a uniformly dispersed acrylic bulk scattering additive of particles having a particle size of from about 3 to about 10 microns in an amount from about 2 to about 7 percent by weight percent for the high scattering of light.

- A process for making a light diffusing film comprising polycarbonate, the process comprising: melting and extruding the polymer resin comprising polycarbonate to form an extruded melt; and passing the extruded melt through a gap between two calendaring rolls to form the light diffusing film having a thickness of at least about .008 inches, and wherein the light diffusing film does not exhibit any visible waving when viewed at any angle, wherein the light diffusing film formed is the light diffusing film of claim 1.
- A process for making a light diffusing film comprising polycarbonate, the process comprising: melting and extruding the polymer resin comprising polycarbonate to form an extruded melt; and passing the extruded melt through a gap between two calendaring rolls to form a web of light diffusing film, a web oscillation speed and a web winding tension being sufficient such that the light diffusing film exhibits no visual gauge bands, wherein the light diffusing film formed is the light diffusing film of claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

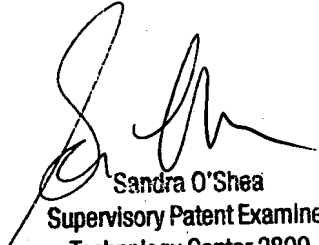
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anabel M. Ton whose telephone number is (571) 272-2382. The examiner can normally be reached on 08:00-16:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on (571) 272-2378. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Anabel M Ton
Examiner
Art Unit 2875

AMT



Sandra O'Shea
Supervisory Patent Examiner
Technology Center 2800